



A.D. 1856 N^o 942.

S P E C I F I C A T I O N

OF

WILLIAM JEAN JULES VARILLAT.

—
OBTAINING EXTRACTS, &c. FROM
VEGETABLE SUBSTANCES.
—

L O N D O N :

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Obtaining Extracts, &c. from Vegetable Substances.

(This Invention did not proceed to the Great Seal.)

PROVISIONAL SPECIFICATION left by William Jean Jules Varillat at the Office of the Commissioners of Patents, with his Petition, on the 19th April 1856.

I, WILLIAM JEAN JULES VARILLAT, of Rouen, in the Empire of France, do hereby declare the nature of the said Invention for IMPROVEMENTS IN THE APPARATUS FOR THE EXTRACTION OF COLOURINGS, TANNING, AND SACCHARINE MATTERS FROM VEGETABLE SUBSTANCES, to be as follows:—

This Invention consists of an apparatus formed by a number of cylindrical vessels, according to the nature of the matter to be extracted; these cylinders are made to communicate with each other by means of cocks placed at the top and bottom; the lower ones are placed beneath a double bottom with trellice work, and the upper ones above other trellice work, which rests on the matter to be treated, which is placed in each cylinder in such wise as to allow the liquids to filter through. The cylinders are placed on a turning platform, so that each time one of the cylinders is emptied or filled the cylinder may be placed in a right position. Instead of a turning plate or platform, which is only used for convenience sake, the cylinders may be placed in a straight line or in a square. The object of this apparatus is to obtain a regular displacement with progressive heat. Thus, when the apparatus is at work, the matter to be extracted is placed in the empty cylinder, and the water, which in passing through three other vats has imbibed the extractable principles and lost a part of its chloric, filters into the cylinder charged with fresh matters,

Varillat's Method of Obtaining Extracts, &c. from Vegetable Substances.

dissolves at irrelitively low temperature the soluble matters in heating the mass ; this mass of matters, after having received the filtration of a certain quantity of liquid which is gathered outside, is then classed in the second rank of filtration, after a rotation has been made by the turning platform, and its communication is made with the new matter from the cylinder which succeeds 5 it in the order of extraction, with fresh matters till it arrives at N, first cylindrical vessel, where it is thrown outside. It is easy to understand, first, that the heat is increased as the cylinder is moved ; second, that the flow of the liquid is also interverted at each change that takes place, by reason of the mass to be abstracted. Thus the cylinder charged with fresh matter receives 10 the liquid from below, while in the next operation it receives it from above. The filtration is performed by the difference of level of the liquid from one cylinder to the other.

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